

APPENDIX O

DCR Approval /Conditional Approval letter

**VDOT Annual ESC & SWM Standards and
Specification table**

L. Preston Bryant, Jr.
Secretary of Natural
Resources



Joseph H. Maroon
Director

COMMONWEALTH of VIRGINIA
DEPARTMENT OF CONSERVATION AND RECREATION

203 Governor Street, Suite 206

Richmond, Virginia 23219

Phone: (804) 786-2064 Fax: (804) 786-1798

October 1, 2009

Mr. Roy T. Mills
State Hydraulics Engineer
Virginia Department of Transportation
1401 East Broad Street
Richmond, Virginia 23219

Subject: 2009 VDOT Annual Standards and Specifications for Erosion and Sediment Control and Stormwater Management

Dear Mr. Mills:

In accordance with §10.1-564 of the Virginia Erosion and Sediment Control Law and §10.1-603.5 of the Virginia Stormwater Management Law, the Department of Conservation and Recreation (DCR) has completed the review of the 2009 VDOT Annual Standards and Specifications for Erosion & Sediment Control and Stormwater Management and they are conditionally approved. The conditional approval is based on DCR staff review and recommendations. The approval contains the following conditions:

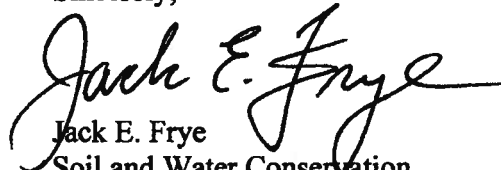
1. Appendix A through C shall be updated with the most current versions of the Virginia Erosion and Sediment Control Law and Regulations and Virginia Stormwater Management Act and Virginia Stormwater Management Program (VSMP) Permit Regulations;
2. Appendix D shall be updated with the General Permit for Discharges of Stormwater from Construction Activities (VAR10);
3. Instruction and informational memorandum IIM-LD-195.5 dated February 12, 2003 shall be revised in consultation with DCR to be consistent with the VSMP Permit Regulations for the 2010 VDOT Annual Standards and Specifications.
4. All VDOT land-disturbing activity requiring a stormwater management plan or General Permit for Discharges of Stormwater from Construction Activities will need to meet the requirements of the VSMP Permit Regulations; and

5. All regulated land disturbing activities undertaken on private and publicly owned lands in Virginia must be conducted in accordance with the approved 2009 VDOT Annual Standard and Specifications. Individual project-specific erosion and sediment control and stormwater management plans must be prepared to ensure proper on site implementation of erosion and sediment control and stormwater management measures. However, these plans need not be submitted to DCR for approval as long as they comply with the approved 2009 VDOT Annual Standard and Specifications; and

To ensure compliance with approved standards and specifications, the Virginia Erosion and Sediment Control Law, and the Stormwater Management Law, staff in DCR regional and central offices will conduct random site inspections, respond to complaints, and provide on site technical assistance with specific erosion and sediment control and stormwater management measures and plan implementation.

Thank you very much for your submission and continued efforts to conserve and protect Virginia's precious natural resources.

Sincerely,


Jack E. Frye
Soil and Water Conservation
Division Director

cc: Stephen D. Kindy, VDOT
John McCutcheon, DCR
Eric R. Capps, DCR



COMMONWEALTH of VIRGINIA

DEPARTMENT OF TRANSPORTATION
1401 EAST BROAD STREET
RICHMOND, VIRGINIA 23219-2000

David S. Ekern, P.E.
COMMISSIONER

October 16, 2009

Mr. Jack E. Frye
Soil and Water Conservation
Division Director
Department of Conservation and Recreation
203 Governor Street, Suite 206
Richmond, Virginia 23219

Subject: 2009 VDOT Annual Standards and Specifications for Erosion and Sediment Control and Stormwater Management

Dear Mr. Frye:

Thank you for your letter of October 1, providing conditional approval of the VDOT's 2009 Annual Standards and Specifications for Erosion and Sediment Control (ESC) and Stormwater Management (SWM). I would like to address each the conditions included in your letter in the order that they were presented.

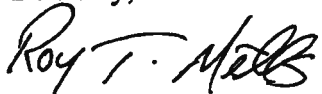
1. Appendix A through C will be updated with the most current versions of the ESC Law and Regulations, the Virginia SWM Act and the Virginia SWM Program (VSMP) Permit Regulations. Because we are near the end of the 2009 approval cycle, these changes will be included in the VDOT's 2010 ESC and SWM Standards and Specifications submittal, which we are now in the process of assembling with an early November submission target date.
2. Appendix D will be updated with the current General Permit for Discharges of Stormwater from Construction Activities. Again, because we are near the end of the 2009 approval cycle, this change will be included in the VDOT's 2010 ESC and SWM Standards and Specifications submittal.
3. A joint meeting between the DCR and the VDOT staff has been scheduled for October 29 to address the issues relative to Instructional and Informational Memorandum (IIM) LD-195.5. We anticipate that any required revisions to IIM LD-195.5 will be included as a part of the VDOT's 2010 ESC and SWM Standards and Specifications submittal.

Mr. Jack E. Frye
October 16, 2009
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4. All VDOT land disturbing activities requiring a stormwater management plan or coverage under the General Permit for Discharges of Stormwater from Construction Activities are required to meet the conditions of the VSMP Permit Regulations. Guidance on this issue is contained in the latest versions of IIMs LD-242 and 246 and Section 107.16 of the VDOT Road and Bridge Specifications.
5. All regulated land disturbing activities that are undertaken by the VDOT, whether on publicly or privately owned lands, will be conducted in accordance with the VDOT's approved Annual Standards and Specifications for ESC and SWM. Individual project specific ESC and SWM plans will be prepared and implemented in accordance with the approved documents. Guidance on these issues is contained in the latest versions of IIMs LD-11, 242 and 246.

The VDOT appreciates the comments and guidance provided by DCR staff on the VDOT's 2009 Annual Standards and Specifications for Erosion and Sediment Control and Stormwater Management submittal. We look forward to a continued dialogue between our agencies on the VDOT's stormwater program to ensure continued compliance with the Virginia Erosion and Sediment Control and Stormwater Management Program Law and Regulations.

Sincerely,



Roy T. Mills
State Stormwater Program Administrator

CC: Mr. John McCutcheon
Mr. Eric R. Capps
Mr. Mohammad Mirshahi, P.E.
Mr. Stephen D. Kindy, P.E.

2011 VDOT Annual Erosion and Sediment Control and Stormwater Management Standards and Specifications

VDOT Annual Submittal Appendix	VDOT Document	VDOT Document Sections	Current Date	Previously Approved Items	New/Updated 2011 Items	Notes:
Appendix F	ESC & SWM Plan Development / Implementation Process	ESC/SWM/VSMP Requirements Flowchart	August 15, 2006	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	ESC & SWM I&IM	IIM-LD-11.26	March 19, 2010	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SWM / E&S program note modified
Appendix F	ESC & SWM I&IM	IIM-LD-73.5	July 9, 2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	ESC & SWM I&IM	IIM-LD-110.21	March 19, 2010	<input type="checkbox"/>	<input checked="" type="checkbox"/>	General note sheet revised
Appendix F	ESC & SWM I&IM	IIM-LD-122.13	April 27, 2009	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	ESC & SWM I&IM	IIM-LD-166.4	December 1, 2005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	ESC & SWM I&IM	IIM-LD-195.7	September 8 2010	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Post Development SWM modified
Appendix F	ESC & SWM I&IM	IIM-LD-214.2	July 27, 2006	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	ESC & SWM I&IM	IIM-LD-228.1	September 12, 2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	ESC & SWM I&IM	IIM-LD-242.3	March 19, 2010	<input type="checkbox"/>	<input checked="" type="checkbox"/>	VA SWM program note modified
Appendix F	ESC & SWM I&IM	IIM-LD-245	September 12, 2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	ESC & SWM I&IM	IIM-LD-246.2	March 19, 2010	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SWPPP note modified
Appendix F	Hydraulic Design Advisory	HDA 05-03 NOAA Atlas 14	September 25, 2006	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	Hydraulic Design Advisory	HDA 05-04.3 TR-55 & TR-20	August 27, 2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	Hydraulic Design Advisory	HDA 06-03.1 Culvert Outlet Protection	September 1, 2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	Hydraulic Design Advisory	HDA 06-05 ESC Plans	November 16, 2006	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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Appendix F	Hydraulic Design Advisory	HDA 07-01.2 SWM Plans	February 20, 2009	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	Hydraulic Design Advisory	HDA 08-02	February 4, 2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	Hydraulic Design Advisory	HDA 09-01	February 20, 2009	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	Road Design Manual	Section A-7	7/09	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-1	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-2	2001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-3	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-4	2001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-5	2006	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-6	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-7	2001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-8	2001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-9	2001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-10	2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-11	2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-12	2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-13	2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-14	2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	L-3	2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	L-3A	2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

2011 VDOT Annual Erosion and Sediment Control and Stormwater Management Standards and Specifications

VDOT Annual Submittal Appendix	VDOT Document	VDOT Document Sections	Current Date	Previously Approved Items	New/Updated 2011 Items	Notes:
Appendix H	Road & Bridge Standards	Roadside Development Sheet A4	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC Summary A5	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	Temp. Sediment Trap A6	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	Sink Hole Detail ISD2944	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	ESC-INC Sheet 1	2004	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	ESC-INC Sheet 2	2004	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	ESC-INC Sheet 3	2004	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	PG-2A	2004	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	PG-3	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	PG-5	2001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	SWM-1 cast in place	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	SWM-1 precast	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	SWM-1 gate details	2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	SWM-DR-Sheet 1	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	SWM-DR-Sheet 2	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	SWM-DR-Sheet 3	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	SWM-DR-Sheet 4	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	SWM-DR-Sheet 5	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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Appendix H	Road & Bridge Standards	SWPPP sheet 1	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	SWPPP sheet 2	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	SWPPP sheet 3	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division I	Section 101 Definitions	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division I	Section 103 Awards and Execution	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division I	Section 104 Scope of Work	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division I	Section 105 Control of Work	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division I	Section 106 Control of Material	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division I	Section 107 Legal Relations & Public Responsibilities	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division I	Section 108 Prosecution & Progress of Work	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division II	Section 203 Course Aggregate	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division II	Section 204 Stone for Masonry, Riprap, Porus Backfill and Gabions	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division II	Section 239 Sodium Chloride-Calcium Chloride	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division II	Section 240 Lime	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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Appendix I	Road & Bridge Specifications Division II	Section 242 Fences	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division II	Section 244 Roadside Development Materials	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division II	Section 245 Geosynthetics	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division II	Section 248 Stone Matrix Asphalt	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division III	Section 301 Clearing & Grubbing	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division III	Section 302 Drainage Structures	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division III	Section 303 Earthwork	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division IV	Section 401 Structural Excavation	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division IV	Section 402 Sheet Piles	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division IV	Section 411 Protective Coating of Metal in Structures	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division IV	Section 413 Dismantling & Removing Structures	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division IV	Section 414 Riprap	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division IV	Section 415 Concrete Slope Protection	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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VDOT Annual Submittal Appendix	VDOT Document	VDOT Document Sections	Current Date	Previously Approved Items	New/Updated 2011 Items	Notes:
Appendix I	Road & Bridge Specifications Division IV	Section 418 Timber Structures	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division V	Section 501 Underdrains	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division V	Section 506 Retaining Walls	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division V	Section 511 Allaying Dust	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division V	Section 520 Water & Sanitary Sewer Facilities	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division VI	Section 602 Topsoil	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division VI	Section 603 Seeding	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division V	Section 604 Sodding	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division V	Section 605 Planting	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division V	Section 606 Soil Retention Coverings	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division V	Section 607 Herbicide Spraying	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division V	Section 608 Mowing	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division V	Section 609 Tree Wells & Tree Walls	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications Division V	Section 610 Gabions	2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

2011 VDOT Annual Erosion and Sediment Control and Stormwater Management Standards and Specifications

VDOT Annual Submittal Appendix	VDOT Document	VDOT Document Sections	Current Date	Previously Approved Items	New/Updated 2011 Items	Notes:
Appendix J	Erosion and Sediment Control Inspection Forms, Related Construction Forms & Memoranda	C-5,C-10, C-12, C-18a, C-26, C-36, C36i,C-36S, C-45, C-83, C-84, C-107 5 of 5, C-107.16 CD-2002-9, LD-433,LD-445, LD-445A, LD-445B, LD-445C, LD-445D, LD-445E	Varies	<input type="checkbox"/>	<input checked="" type="checkbox"/>	C-107.16 (a) modified to comply with DCR requirements
Appendix K	VDOT Stormwater Management Maintenance Program	Environmental Policy for Maintenance of Ditches and Shoulders, Property Owner Agreement-Disposal Site, Disposal Area-DEQ MOA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Added - BMP Filtration,Infiltration,Manufactured,Miscellaneous and inspection sheets. Added - Solid Waste, Disposal Areas MOA Centralized Burning of Vegetative Debris Revised - Maintenance Activity Disposal Ares Process and Property Owner Agreement
Appendix K	VDOT Stormwater Management Maintenance Program	Hampton Roads District SWM Basins Inventory and Inspection Manual	2005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	This document is being used as a prototype to develop a new statewide VDOT SWM Maintenance Program Manual. It is currently used in all 9 VDOT construction districts.
Appendix L	Environmental Monitoring Program Environmental Compliance Report	VDOT Environmental Monitoring Program	2009	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Environmental Compliance Report was modified. The project report and documentation is now the responsibility of the project inspection

2011 VDOT Annual Erosion and Sediment Control and Stormwater Management Standards and Specifications

VDOT Annual Submittal Appendix	VDOT Document	VDOT Document Sections	Current Date	Previously Approved Items	New/Updated 2011 Items	Notes:
Appendix M	Modifications to Specifications	c100c00-0708 c105ag0-0708 c106fn0-0708 c302h00-0708 S100F100-0708 S107F00-0708 S107G01-0309 S108M00-0808 S303-DP0-0708 S303J00-0708 S303K00-0909 S302H01-0909 SS30302-0909 SS1D006-0909 SS30303	Varies	☒	☒	
Appendix Q	NMP	Nutrient Management Plan, S107F1C-0108, S107G0B1-0108	2007	☒	☒	Documents to be completed in the 2011 Calendar year
See Web Site	VDOT Drainage Manual	Chapter 6	2002	☒	☒	
See Web Site	VDOT Drainage Manual	Chapter 7	2002	☒	☒	
See Web Site	VDOT Drainage Manual	Chapter 8	2002	☒	☒	
See Web Site	VDOT Drainage Manual	Chapter 9	2002	☒	☒	
See Web Site	VDOT Drainage Manual	Chapter 10	2002	☒	☒	
See Web Site	VDOT Drainage Manual	Chapter 11	2003	☒	☒	